Redline KR200S

USER'S MANUAL

K-array is the new voice that sings aloud, "outside the choir", and whose performance is better than any other products.

Born on-the-road, in the PA world, where you get no discount, you have to give your best as fast as you can, often with a "compressed" budget, K-Array systems have been designed to give precise answers to precise needs.

Driven by new generation digital engines, with power/dimension/weight ratios that are ten times better than any other professional products, K-arrays can deliver the full spectrum of musical styles with clarity, power, punch, intelligibility and evenness across both volume levels and the frequency spectrum. These systems can be remotely controlled and come with a sophisticated on-board software, allowing the user to shape their performance to taste and needs. Inside K-array systems you will find something that only we can offer: the best in technology, proudly conceived, designed and produced in Italy. If they were cars, they would be Ferrari. Don't agree to pay for a simple brand, claim performance, and don't believe those who maintain that these products are only for few people, the only truth is that K-array systems are unique, but affordable and within everybody's reach!

HP Sound Equipment s.r.l.

SYMBOLS

This symbol, wherever it appears, alerts you to important operating and maintenance istructions in the accompanying literature. Read the manual!	Dangerous voltages: risck of electric shock.
For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.scanning.datalogic.com	This symbol alerts the user to the presence of recommendations about product's use and maintenance.

1. SAFETY INSTRUCTIONS

CAUTION

• To reduce the risk of electric shock, disconnect the amplifier from the AC mains before installing audio cable. Reconnect the power cord only after making all signal connections.

• Connect the amplifier to a two-pole, three wire grounding mains receptacle. The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes.

• Do not install the amplifier in wet or humid locations without using weather protection.

• Do not allow water or any foreign object to get inside the amplifier. Do not put objects containing liquid on, or near, the unit.

• To reduce the risk of overheating the amplifier, avoid exposing it to direct sunlight. Do not install the unit near heat emitting appliances, such as a room heater or stove.

• No naked flame sources such like lighted candles should be placed on the device.

• The amplifier should be placed so that its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, carpet, or similar surface that may create an obstacle for the ventilation openings.

2. INTRODUCTION

The KR200S is a high performance ultra-slim powered two way system designed for small to medium wavefront systems, in both mobile and installed applications.

The KR200S includes two KR200 satellites and 2 KL18ma powered subwoofers.

The KL18ma features a 1600 watt 18" drive unit with neodymium magnet structure and suspension engineered for maximum linear excursion. Its ultra-light reflex cabinet is fitted with two pocket handles and one 35mm pole mounting point for easy installation with every satellite speaker on it.

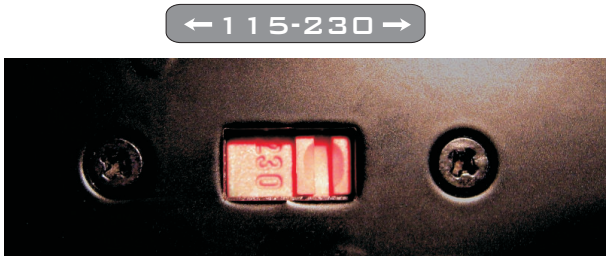
The KR200S features a line array of 32x2" high efficiency neodymium magnet drivers enclosed in an ultra-strong chassis, to ensure high resistance and durability in the hardest working conditions.

The KR200S thanks to true line array technologies and powerful DSP system, achieve outstanding power and coherence throughout the intended coverage allowing a wide dynamic range and a faithful reproduction of sound.

All the components are designed by K-array R&D department and custom made under K-array control quality system.

3. VOLTAGE REQUIREMENTS

KA 10 operates safely and without audio discontinuity if the AC voltage stays within either of two operating windows: 95-125 (voltage selector on 115 V) or 195-250 V (voltage selector on 230 V), at 50 or 60 Hz.

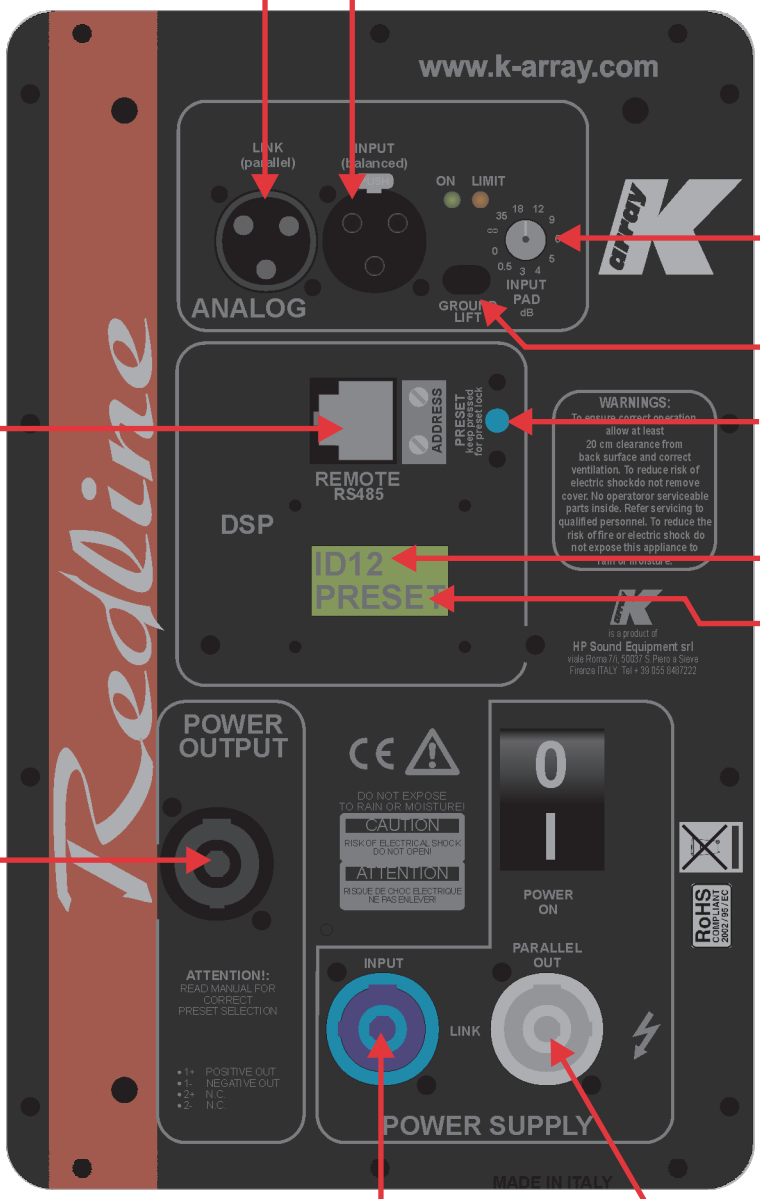


The device is default set to be connected to 230 V AC Power. To use the device on a 115 V AC Power you need, before connecting it, to move the voltage selector's cover, just loosening the two screws, and to choose the correct use voltage by the red switch. Be sure that both voltage set on the selector and AC Power have the same value . Always close the voltage selector's cover before connecting the device to AC Power. Change the label that points out the correct voltage in use.

CAUTION

Connecting a 115V system on a 230V AC Power causes heavy damages to the device and serious risk for users .

4. AMPLIFIER PANEL



Balanced XLR
In \ Out parallel

Input pad level

Ground lift switch

RS485 connection for remote control (don't connect to LAN port!)

Preset change button
Keep it pressed 10sec. to store preset as default

ID number for remote control

Preset loaded

Speakon power output.
To use with KR200 satellite or with KL18 passive subwoofer

PowerCon Input

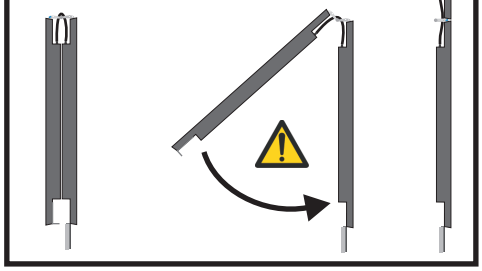
PowerCon parallel Output (max 14 A)

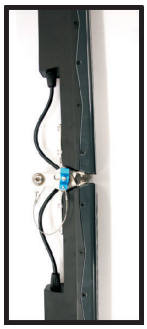
5. PHYSICAL

Open and lock the KR200 satellite before installing on the KL18ma.

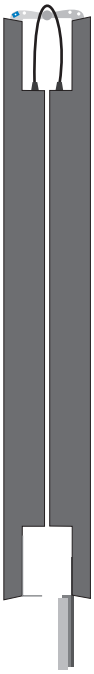
Warning

Pay attention when closing the KR200 satellite, do it slowly and watch your hands!

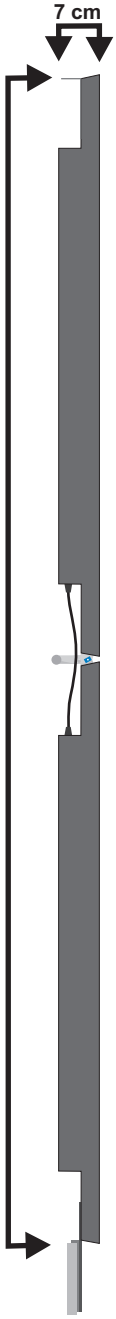




KR200



100 cm

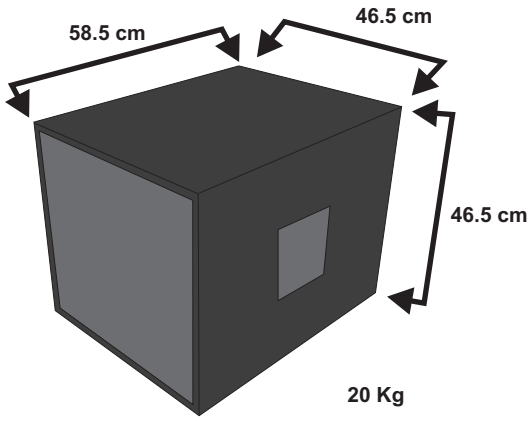


7 cm

200 cm

9 Kg

KL18ma



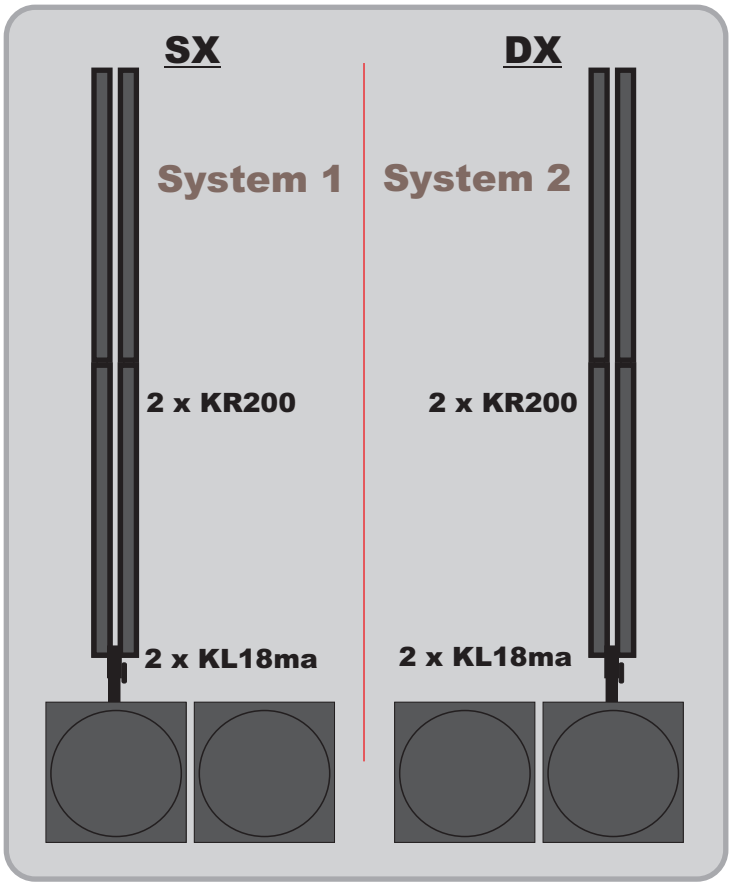
58.5 cm

46.5 cm

46.5 cm

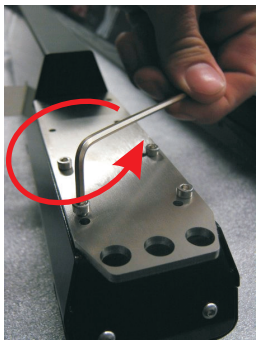
20 Kg

6. SYSTEM'S EXTENSION

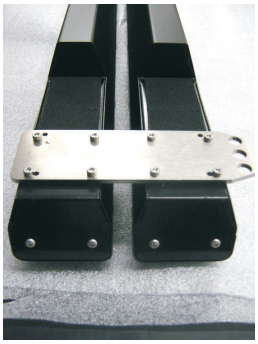


To get higher SPL and horizontal directivity, is possible to combine two KR200 columns using the machanical parts fitted on each speaker.

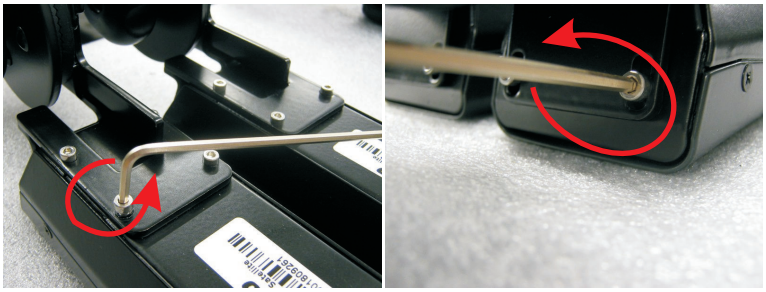
Assembly Manual



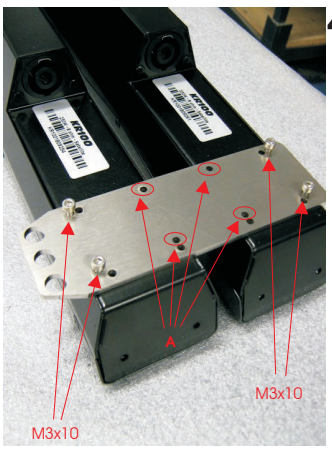
1. Unscrew the four screws that fix the high steel bracket (by a 2.5mm allen key), then remove it.



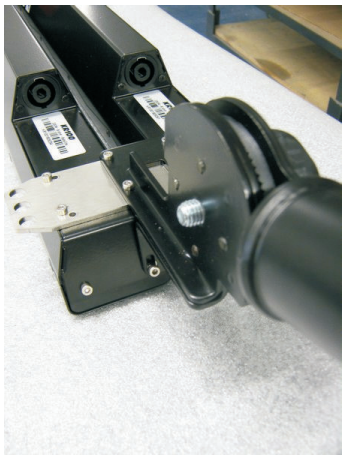
2. Combine two KR200 by the top using one of the disassembled brackets.



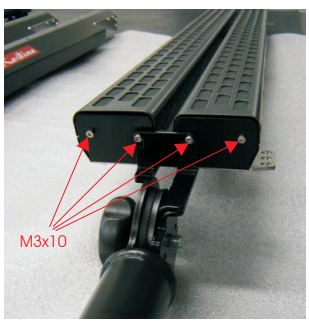
3. Disassemble the junction of the lower support.



4. Combine the two KR200 by the bottom using the other disassembled steel bracket. Fix it only by the more external holes. The four central points of attachment (A) must be left free.



5.

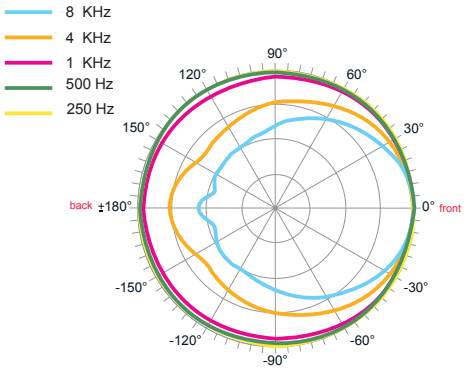


Assemble the junction sopport with the middle of the bracket, by the four free central points of attachment. Use other four screws in the four holes on the bottom of the speaker.

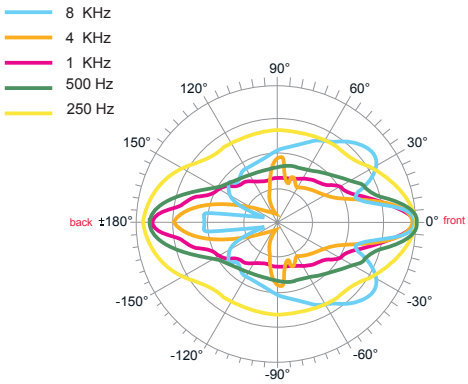
7. TECHNICAL DATA

	KR200S (specifications for one side system)
	Acoustics
Speakers power handling	800(sub) + 500(sat) w(EAS)
Max power	1200(sub) + 1200(sat) w [1]
Impedance	8Ω(sub)+16Ω(sat)
Frequency range	30Hz - 19 KHz +/- 3dB (preset dependent)
SPL 1W/1mt	97 dB (sub) 101 dB (sat) [2]
Maximum SPL	127dB continuous - 133 dB peak
	Coverage
Horizontal	100°
Vertical	7°
	Crossover
Type	DSP controlled
Frequency	150 Hz minimum (preset dependent)
	Transducers
Low frequency	1 x 18" Neodymium speakers with 3" voice coil
High frequency	32 x 2" Neodymium speakers with 0,75" voice coil
	Audio Input
Connectors	male + female parallel 3-pin balanced XLR
Wiring	Pin1 = ground - Pin2 = hot - Pin3 = cold
	Audio powered Output
Connector	Female Speakon
Wiring	Pin1+= CH1+ Pin1= CH1- Pin2+= N.C. Pin2= N.C.
	Remote control Input
Connectors	1 x female 8 poles RJ45
	Power Input
Connectors	2 x PowerCon IN/OUT
	Amplifiers
Type	1 modules class D - DSP controlled
Subwoofer power	1000 Watt [3] @8Ω
Satellite power output	1000 Watt [3] @8Ω
Protection	Dynamic limiter, over current, over temp, short circuits
	AC power
Operating range	210 - 240 Vac 50Hz (Default) 100 - 120 Vac 60Hz (Selectable)
I. nom	5.5 A / 115 Vac - 2.9 A / 230 Vac
Minimum operation voltage	95 Vac - 195 Vac
Maximum operation voltage	125 Vac - 205 Vac
Max continuos and burst current	Default 6A(>10 sec) - 12A (<1 sec) Selectable 10A(>10 sec) - 20A (<1sec)
	Physical
Dimensions	KL18ma: 46.5 x 47.5 x 61 cm (18.31"x 18.70" x 24.02") KR200: 5.7 x 222.5 x 7.4 cm (2.24"x 87.60" x 2.91")
Weight	KL18ma: 25.8 Kg (56.88 lbs) KR200: 8.2 Kg (18.08 lbs)

DISPERSION GRAPHS



horizontal



vertical

Notes for data
1. Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.
2. Measured @4 mt then scaled @1 mt
3. Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS voltage that the amplifier will produce into the nominal load impedance.

New materials and design are introduced into existing products without previous notice. Present systems may differ in some respects from those presented in this brochure.

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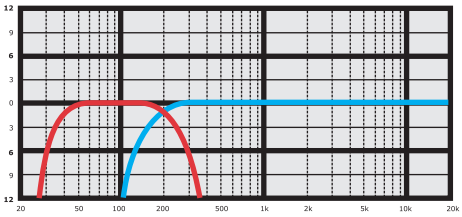
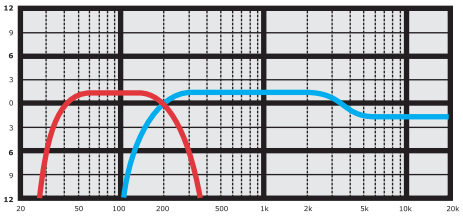
8. PRESETS

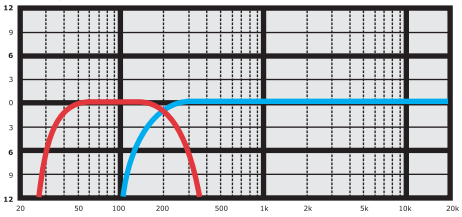
Clear



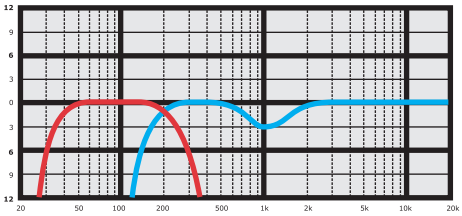
Smooth



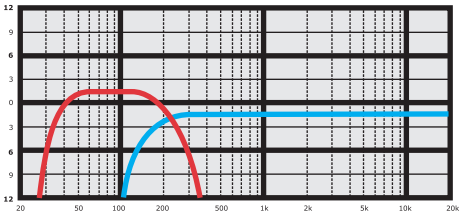
Tony



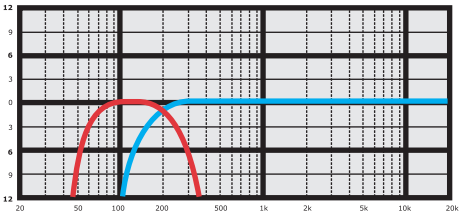
Back



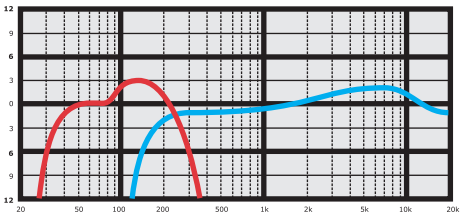
Dark



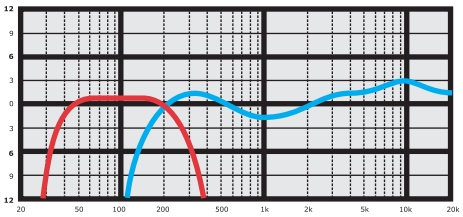
HP60



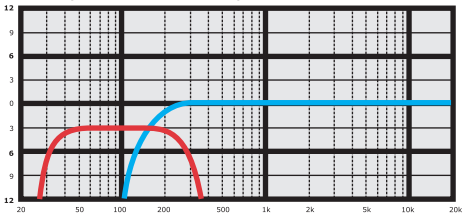
Disco



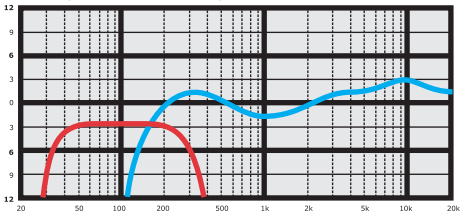
Live



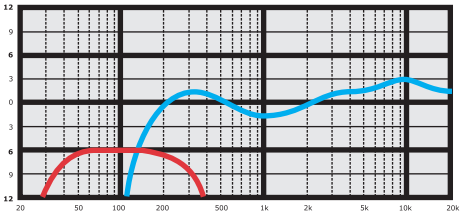
Cl-3 (Clear - 3dB Sub)



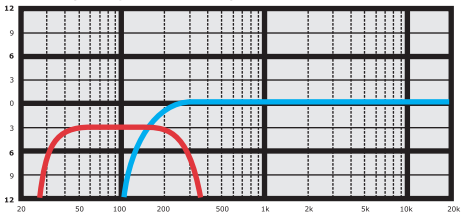
Li-3 (Live -3dB Sub)



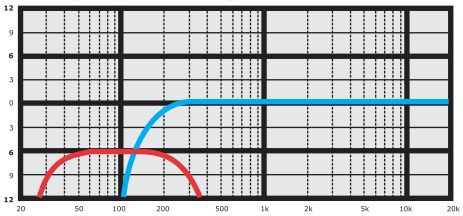
Li-6 (Live -6dB Sub)



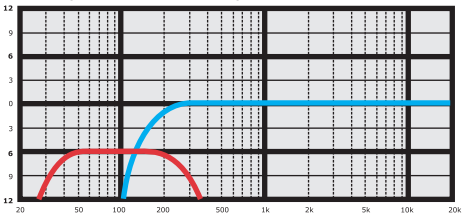
To-3 (Tony -3dB Sub)



To-6 (Tony -6dB Sub)



Cl-6 (Clear - 6dB Sub)



NOTES

The contents of this manual are fornished for informational purpose only. Hp Sound Equipment s.r.l. assumes no responsability for any errors or inaccuracies that may appear in this manual.

Hp Sound Equipment s.r.l. reserves the right to make modifications without prior notice.

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by

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